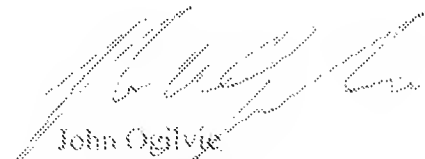


This is an attachment to the Revised Supplemental Brief filed June 19, 2006 in 10/034,197.

A Notification mailed 06/14/2006 in 10/034,197 required appellant to provide the "Artifact of 10/034/197ZA". Accordingly, a copy of said artifact is provided, in the following 9 pages, in the form of a copy of a third party submission and accompanying non-patent literature; a copy of the cited patent is not enclosed, consistent with Office practice in IDSs.



John Ogilvie  
Reg. No. 37987

Attorney Docket No.: 101092-00074

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: SANCHAITA DATTA

Confirmation No.: 7746

Serial No.: 10/034,197

Filed: December 28, 2001

Title: COMBINING CONNECTIONS FOR PARALLEL ACCESS...

Examiner: THU HA T. NGUYEN

Group Art Unit: 2155

April 2, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

THIRD PARTY SUBMISSION

SIR:

Please withdraw the fees for this third party submission from deposit account 50-1290, as set forth in 37 CFR 1.17(p) and 37 CFR 1.17(i).

Submitted for consideration is the following documents and publication date:

- 1) U.S. Patent No. 6,665,702B1 Issued December 16, 2003;
- 2) "Radware announces LinkProof: The first IP Load Balancing Solution for networks with multiple ISP connection" Published October 7, 1999;
- 3) "Radware Balances the Network" Published January 7, 2000;
- 4) "Global Product Spotlight: Radware Linkproof" Published December 1, 1999;
- 5) "Radware Seeks Solutions to Easy-Access Problems" Published December 1, 1999;

This submission has been served upon the applicant in accordance with 37 CFR 1.248.  
Proof of service is attached.

This submission is after the two months from the time the application was published  
because:

1. The publication of the application only became known to the third party submitter on or about January 30, 2004; and
2. The U.S. patent issued on December 16, 2003, which was after the two month period had expired and therefore could not have been submitted within the time period.

Respectfully submitted,

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## Radware announces LinkProof: The first IP Load Balancing Solution for networks with multiple ISP connection

**Mahwah, NJ; October 7, 1999.** To ensure 7x24 availability many enterprises, e-commerce sites and regional ISPs are utilizing multiple Internet router connections. The LinkProof by Radware (Nasdaq: RDWR) is the first technology designed to intelligently load balance IP traffic between these "multi-homed" sites, creating redundancy and eliminating single points of failure.

Deploying independent router connections to two or more ISPs creates these multi-homed sites. This diversity ensures 7x24 availability and an uninterrupted packet delivery to and from the enterprise in the event one or more ISP connection fails. While this adds redundancy, it also creates configuration complexity that may necessitate intricate routing protocols such as BGP (Border Gateway Protocol) and/or coordination between the contracted ISPs.

LinkProof removes this complexity by taking responsibility for the packet delivery through a healthy ISP connection. Sifting logically between the enterprise network and a farm of Internet routers, the LinkProof verifies ISP health and intelligently load balances all inbound and outbound traffic. In addition, it performs Smart NAT to ensure the uninterrupted packet delivery to and from the enterprise network. Smart NAT allows the LinkProof to perform network address translation according to the ISP connection selected to carry the session to the Internet. For example, if the LinkProof chooses ISP\_1 for outbound session delivery, then the translated source address will belong to the ISP\_1 IP address pool for the inbound response.

Internet traffic is optimized by the LinkProof through intelligent load balancing based on the current session and/or load per verified ISP connection. Additionally, network proximity is measured to determine the closest and fastest route. Network proximity is calculated in both router hops and round trip latency. This allows multi-homed sites to transmit information through a fast, healthy route.

LinkProof also uses proximity detection to perform inbound traffic management. For Internet users attempting to access a resource on the enterprise network (such as a Web server), the LinkProof uses DNS to assure the most optimal ISP connection. This feature allows the LinkProof to consistently use the best and quickest path to satisfy user requests for information.

The LinkProof continuously monitors the health of all routers in the farm, and periodically checks each router path and the health of user defined nodes beyond the router. This monitoring allows the LinkProof to continually send sessions through healthy routers on a healthy Internet path.

### About Radware

Radware develops, manufactures and markets products that manage and direct Internet traffic among network resources to enable continuous access to Web sites and other services, applications and content based on the Internet protocol. Radware offers a broad range of Internet traffic management solutions to service providers, e-commerce businesses and corporate enterprises that require uninterrupted availability and optimal

performance of IP-based applications that are critical to their business. Radware's Internet traffic management solutions enable its customers to manage their network infrastructure to bypass system failures and to scale their network infrastructure to accommodate increasing IP traffic. Radware's products improve the productivity of network infrastructure by distributing traffic within a network to optimize the use of available network resources. Radware's products can be deployed either as independent solutions to address specific application needs at a particular location within a network or as an end-to-end integrated solution to manage traffic throughout a network.

This press release contains forward-looking statements that are subject to risks and uncertainties. Factors that could cause actual results to differ materially from these forward-looking statements include, but are not limited to, general business conditions in the Internet traffic management industry, changes in demand for Internet traffic management products, the timing and amount or cancellation of orders and other risks detailed from time to time in Radware's filings with the Securities and Exchange Commission, including Radware's Form F-1.

## Radware Balances the Network

Internet Traffic Management Center, January 1, 2000



By Peter Chirity

One of the absolutely thrilling parts of our job is being exposed to the continuing innovation of in the industry. We love watching the process of application invention - new ideas, seemingly out of the blue, that redefine "common knowledge" on what the product category is good for.

In the past, Alticon had some of our favorite inventions: cache redirection and balancing was certainly a good idea, and they invented a particularly cute DNS request capture application. This time we focus on Radware with LinkProot - their invention for balancing and managing multi-homed connections out to the Internet.

Multi-homing is a simple concept. You want to have multiple connections to the Internet, provided by multiple ISPs, that multi-homing quickly gets very complicated, is difficult to configure, and is certainly not something you would want to reconfigure casually. Radware looked at this problem and developed an innovative application of traffic management.

For this discussion, let's assume a fairly simple multi-homing configuration: a branch office LAN connected to the Internet through two different ISPs. The obvious application of traffic management is simple: the testing of the two links, and assuring that no traffic is sent to an ISP if a link is down. And you can imagine how a traffic manager could look at the load on the two links and balance it suitably.

But Radware goes well beyond this, using their DNS technology to determine which of the ISPs is the better path for specific traffic, and then routing traffic accordingly. This is clearly an innovative and clever use of traffic management, and certainly one we had never come close to imagining before. (See Radware's white paper for more interesting details.)

This kind of innovation is particularly important given a question we are regularly asked: "Won't the traffic management product category disappear over time as the functionally migrates into conventional routers and switches?" The answer we give is "Yes. If a traffic management company invests nothing new, then over time the value of their product will diminish." But we strongly feel that this is the wrong way to look at traffic management. In the server room, we see traffic management systems in effect becoming the operating system of the clustered computers that are serving out a return to centralized information systems. That's a big deal and a big future. And at the global level, we see the DNS solutions evolving into fully full-blown content-directed routing schemes (as in the Akamai network), and that's also a very big deal. So the future of traffic management lies in innovation, and it's a significant and exciting future, if an unknown one.

## Global Product Spotlight: Radware Linkproof



midwestmagazine.com, December 1, 1999.

Radware's new load balancer maximizes backup Internet links

By David Greenfield

What's an easy way to strengthen an Internet hookup? Add a link to another upstream Internet provider. That might be smart planning, but it doesn't make for great accounting. Backup links sit idle most of the time, which means ISPs pay full tariffs for rarely used lines.

Radware (www.radware.com) thinks there's a better business solution. Its new LinkProof is the first load balancer to make running parallel links to the Internet easy and cost-effective. For starters, LinkProof optimally distributes traffic across multiple access lines. What's more, if a line or router fails, LinkProof rolls the traffic over to the backup connectors.

That might not sound like such a big deal. After all, breaking the Border Gateway Protocol 4 (BGP4) routing protocol can yield similar results. But not everyone runs BGP4, and those who do spend considerable time and expertise configuring the protocol. Finally, while BGP4 will switch to a backup link, the protocol won't let you weight your traffic distribution to maximize your connections. LinkProof will do all of that, and it doesn't require a Ph.D. to deploy.

Or so says Radware. Although there are plenty of users briefed on the product, nobody has tested it. What's more, none of these users are the second-tier ISPs that are supposed to accept the product. Franny, because LinkProof only works with links on its subnet, this box can't distribute traffic loads across lines on other networks or oceans.

Still, that's not stopping some major networkers from getting excited about the product. "On paper at least, LinkProof sounds like just what we want," says George Karian, consultant of architecture and technology planning at Pacific Corp., a utility company in Portland, OR. Pacific currently runs its Internet across cut of Portland, while paying for a backup link out of San Jose City, UT.

LinkProof, a modular box with two Ethernet or Fast Ethernet ports, sits between the firewall protecting the corporate backbone and in front of the routers connected to the Internet. At install time, the network manager assigns a weight to each link that indicates the speed or cost of each line.

The rest of the configuration depends on the particular application. When load balancing incoming traffic, as is common with an e-commerce site, the LinkProof appears as the default DNS server. DNS queries from users looking to access the site are sent to LinkProof. It then IP addresses that are associated with each of the ISPs' links. LinkProof determines the optimum link based on latency and packet loss and then responds with the appropriate destination IP address.

When balancing outgoing Internet traffic, LinkProof is defined as the default router. It receives all outgoing packets and determines

the optimal link. LinkProof then changes the packet's source address to an address associated with an ISP's line and forwards the packet to the appropriate router.

So what happens in the event of a failure? LinkProof constantly monitors the health of each connection by testing the availability of up to 10 IP addresses along the path. If the address doesn't respond after some user-defined period of time, the traffic is directed to the alternative link. By default, the switch time is two seconds.

The key in both cases is Smart Network Address Translation (SmartNAT), which is the ability to reply with an IP address specific to a link. With SmartNAT, LinkProof insures that the client's responses return along the same link as the outgoing request. This enables LinkProof to account for traffic flooding in both directions when making a load-balancing decision. "Without SmartNAT, you don't get real load balancing," says Kurian.

Endware certainly isn't the only vendor in the load-balancing market. A number of other companies—including Altron WebSystems, Foundry Networks, and F5 Networks—deliver products that distribute traffic across Web sites and firewalls.

However, they stumble when it comes to delivering SmartNAT capabilities. Altron is close, but the implementation is too cumbersome, says Kurian. Foundry and F5 don't offer products with SmartNAT today. F5 says it will add the SmartNAT feature in the next release of BIG-IP, which is expected to ship in December 1993. Foundry has not announced plans for releasing SmartNAT.



## Radware Seeks Solutions to Easy-Access Problems

South China Morning Post, December 7, 1999.

### South China Morning Post

I N T E R N E T E D I T I O N

By Veronique Staurier

Continuous access to Web sites is at the core of every product developed by Radware, a small Israeli company that claims to be the second-largest vendor of Internet traffic-management solutions. "The Internet is cruel. For a company cashing on e-commerce, a down time of even one minute means lost business and lost customers who may never come back," said Yoram Danesh, Radware's vice-president of sales for Asia Pacific.

"Yet the Internet is vulnerable. Everything from traffic overload to a pulled Ethernet cable can make a Web server unavailable."

Maintaining Web sites to keep them up and running continuously has become a business in itself for many companies, including France Telecom Nepergement - the host of the prestigious Presidency of Republic of France site - or Sprint IP Web hosting.

These carriers guarantee 100 per cent availability and offer their customers financial compensation if their sites are down for even a few seconds.

The way they keep their promises without bankruptcy is by making every machine and circuit of the network redundant by ensuring if one machine breaks the other still operates.

They also place so-called "load balancers" at strategic points of the network to make the Internet as fluid and fast as possible.

Although the concept of load balancing is quite simple - it directs Internet traffic to the server that is less busy - Radware claims it pioneered the concept and has been perfecting it since the launch of Web Server Director (WSD) four years ago.

WSD won Radware top honors from several United States technical magazines for its management, configuration, and ability to act as both primary and secondary load balancer at once.

Follow-up products include WSD Pro, which supports multiple networks, WSD DS which dispatches traffic to the nearest server in

the case of distributed sites, and Cache Server Director which intercepts Web users' requests and directs them to the most available cache server.

High availability also has become a critical component of firewalls deployed across enterprise networks to provide secure connectivity for Internet, and Intranet and extranet communications.

Last year Radware launched FireProof, which load balances data to the best available firewall of the network.

According to Mr. Daniel, many Cisco Systems' firewalls are load balanced by Radware's FireProof.

"While we were installing FireProof, we realized many companies wished to have multiple connections to the Internet instead of relying on one single ISP but were not ready to go through the hassles," Sharon Trautman, vice-president marketing, said.

Using multiple ISPs adds redundancy abilities but necessitates complex configuration and routing protocols as well as close coordination between the connected ISPs.

To make things easier, Radware designed a dedicated product that determined the closest, fastest and healthiest route for incoming and out-bound IP traffic between different ISPs.

That product, LinkProof, was launched globally last month.

Such responsiveness is the key to Radware's success.

## RELATED PROCEEDINGS APPENDIX

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